Mus
7 HM

CONTENTS

1950, Nos. 1-4

ALLEN, E. ROSS
Sounds Produced by the Suwannee Terrapin 62
(*See* WILFRED T. NEILL)

AMARAL, AFRANIO DO
Two New South American Lizards 281

ANDERSON, PAUL K., and CLARENCE L. SMITH
An Electrical Apparatus for Herpetological Collecting (1 fig.) 322

AXTELL, RALPH W.
Two Specimens of the Snake *Ficimia streckeri* from Texas 157

BAARSLAG, ANTON F.
The Pilot Blacksnake and the Timber Rattlesnake in Vermont 322

BAILEY, JOSEPH R.
A New Subspecies of the Darter *Hololepis barratti* from Western North Carolina 311

BAILEY, REEVE M., and ROBERT RUSH MILLER
Mollienesia Versus *Mollienisia* as the Name for a Genus of Poeciliid Fishes 318

BAILEY, REEVE M., and WILLIAM RALPH TAYLOR
Schilbeodes hildebrandi, a New Ameiurid Catfish from Mississippi (2 pls.) ... 31

BARBOUR, ROGER W.
The Reptiles of Big Black Mountain, Harlan County, Kentucky 100
The Distribution of *Carphophis amoena* in Kentucky 237
A New Subspecies of the Salamander *Desmognathus fuscus* 277

BARRACLOUGH, W. E.
An Inshore Record of the Bathypelagic Fish, *Chauliodus macouni* Bean, from British Columbia 241

BARTON, A. J.
Replacement Fangs in Newborn Timber Rattlesnakes 235

BISHOP, SHERMAN C.
Response of Minnows to Earth Vibrations 318

BISHOP, SHERMAN C., and B. O. VALENTINE
A New Species of *Desmognathus* from Alabama (3 figs.) 39

BLAIR, ALBERT P.
Notes on Anguid Lizards 57
The Alligator in Oklahoma 57
Notes on Oklahoma Microhylid Frogs 152
Some Cold-blooded Vertebrates of the Oklahoma Panhandle 234
Skittering Locomotion in *Acris crepitans* 237

BOLIN, ROLF L.
Remarks on Cottid Fishes Occasioned by the Capture of Two Species New to California (1 fig.) 195

BRAGG, ARTHUR N.
Size Range in Adults of the Toad *Bufo cognatus* 153

BURGESS, ROBERT C., JR.
Development of Spade-foot Toad Larvae under Laboratory Conditions 49

CAGLE, FRED R.
Notes on *Holbrookia texana* in Texas 230

CASWELL, HERBERT H., JR.
Rhythmic Color Change in the Lizard *Xantusia vigilis* (2 figs.) 87

CATLIN, WILLIAM P.
A New Florida Record for *Sistrurus miliarius barbouri* 59

CHANEY, ALLAN, and CLARENCE L. SMITH
Methods for Collecting Mapturtles 323

CLARK, CLARENCE F.
Observations on the Spawning Habits of the Northern Pike, *Esox lucius*, in Northwestern Ohio 285

CONANT, ROGER (*See* KARL P. SCHMIDT)

COPLAND, STEPHEN J.
Nomenclature and Type Specimens of Two Species of *Sphenomorphus* (Sauria: Scincidae) 57

CRANE, SHELDON C. (*See* HENRY KRITZLER)

CROSS, FRANK BERNARD (*See* GEORGE A. MOORE)

CURD, MILTON R.
The Salamander *Amphiuma tridactylum* in Oklahoma 324

CURTIS, LAWRENCE
A Case of Twin Hatching in the Rough Green Snake 232

DOWLING, HERNDON G.
A New Southeastern Record for the Coal Skink 235

DUELLMAN, WILLIAM E.
A Case of *Heloderma* Poisoning 151

ERICKSON, DONALD W. (*See* MAX KATZ)

ETHERIDGE, RICHARD E.
Color Variants in Snakes from the Southeastern United States (1 fig.) 321

EVERHART, W. HARRY
The Blueback Trout, *Salvelinus oquassa* (Girard), in Maine 242

FIRSCHEIN, I. LESTER
A New Toad from Mexico with a Redefinition of the *cristatus* Group (1 pl.) 81

Resurrection of *Bufo occidentalis* Camerano and Remarks on the Status of the Toad *Bufo simus* Schmidt 220

FLURY, ALVIN
A New King Snake from Trans-Pecos Texas 215

FOX, DENIS L. (*See* HENRY KRITZLER)

FUNKHOUSER, JOHN W.
Further Evidence Regarding the Occurrence of the Salamander, *Ensatina eschscholtzii xanthoptica,* in the Sierra Nevada of California 59

GREEN, ANN SHEPARD (*See* LEONARD P. SCHULTZ)

GROBMAN, ARNOLD B.
The Problem of the Natural Range of a Species 231

GUNTER, GORDON
Correlation Between Temperature of Water and Size of Marine Fishes on the Atlantic and Gulf Coasts of the United States 298

HAAS, GEORGE
A New *Atractaspis* (Mole Viper) from Palestine (1 fig.) 52

HAIRSTON, NELSON G.
Intergradation in Appalachian Salamanders of the Genus *Plethodon* (3 figs.) 262

HALSTEAD, BRUCE W.
The Capture of a Wattled Eel-pout, *Lycodes palearis,* from Fidalgo Island, Washington, and the Distributional Record of this Species 317

HALSTEAD, BRUCE W., and F. RENE MODGLIN
A Preliminary Report on the Venom Apparatus of the Bat-ray, *Holorhinus californicus* (6 figs.) 165

HARRINGTON, ROBERT W., JR.
Preseasonal Breeding of the Bridled Shiner, *Notropis bifrenatus,* Induced under Light-Tempearture Control (1 fig.) 304

HEBBARD, WILLIAM B.
A Dimorphic Color Pattern of the Garter Snake *Thamnophis elegans vagrans* in the Puget Sound Region (4 figs.) 217

HIGGINS, ELMER
Samuel F. Hildebrand as a Government Scientist 8

HOWARD, WALTER E.
Birds as Bullfrog Food 152

Eggs of the Salamander *Ensatina eschscholtzii platensis* 236

HUBBS, CARL L.
Samuel F. Hildebrand, Ichthyologist and Herpetologist (1 pl.) 12
(*See* HENRY KRITZLER)

HUDSON, ROBERT G.
A Possible Hibernating Site for the Spring Peeper 59

JACOBS, DON L.
Pseudacris nigrita triseriata on the North Shore of Lake Superior 154

Status of Garter Snakes in a Forest-Prairie Ecotone in Southern Minnesota .. 233

JAMESON, DAVID L.
The Development of *Eleutherodactylus latrans* (1 pl.) 44

The Breeding and Development of Strecker's Chorus Frog in Central Texas .. 61

KATZ, MAX
Some Interesting Cells in the Blood of a Diseased Silver Salmon Fingerling (1 pl.) 295

KATZ, MAX, and DONALD W. ERICKSON
The Fecundity of Some Herring from Seal Rock, Washington (2 figs.) 176

KATZ, MAX, and MORRIS SOUTHWARD
The Blood-clotting Time in Spent Silver Salmon, *Oncorhynchus kisutch* (Walbaum) 150

KLIMSTRA, W. D.
Narrow-mouthed Toad Taken in Iowa 60

KRAMER, DAVID
A Record of the Swordfish, *Xiphias gladius* Linnaeus, from the Texas Coast .. 65

KRITZLER, HENRY
Broussonet's Goby from the Brackish Water of the Lower St. Johns River, Florida 64

KRITZLER, HENRY, DENIS L. FOX, CARL L. HUBBS and SHELDON C. CRANE
Carotenoid Pigmentation of the Pomacentrid Fish *Hypsypops rubicunda* (6 figs.) 125

LARIMORE, R. WELDON
Gametogenesis of *Polyodon spathula* (Walbaum): a Basis for Regulation of the Fishery (2 pls.) 116

LOWE, CHARLES H., JR.
The Systematic Status of the Salamander *Plethodon hardii*, with a Discussion of Biogeographical Problems in *Aneides* (1 fig.) 92

LYNN, W. GARDNER, and SISTER MARY ULRICH
Experimental Production of Shell Abnormalities in Turtles (2 pls., 2 figs.) ... 253

MAURO, ALEXANDER (*See* JAMES E. MORROW, JR.)

MCLANE, WILLIAM M.
An Albinistic *Ictalarus catus* from Florida 149

MILLER, ROBERT RUSH
Profundulus hildebrandi, a New Cyprinodontid Fish from Chiapas, Mexico (1 pl.) 22
(*See* REEVE M. BAILEY)

MODGLIN, F. RENE (*See* BRUCE W. HALSTEAD)

MOORE, GEORGE A.
Fine-mesh Nets for Fish Collectors 319

MOORE, GEORGE A., and FRANK BERNARD CROSS
Additional Oklahoma Fishes with Validation of *Poecilichthys parvipinnis* (Gilbert and Swain) 139

MORROW, JAMES E., JR., and ALEXANDER MAURO
Body Temperatures of Some Marine Fishes (4 figs.) 108

MYERS, GEORGE S.
Systematic Notes on some Amazonian Clupeid Fishes of the Genus *Ilisha* 63

The Systematic Status of *Hyla septentrionalis*, the Large Tree Frog of the Florida Keys, the Bahamas and Cuba 203

Flying of the Halfbeak, *Euleptorhamphus* 320
(*See* LUIS RENÉ RIVAS)

NEILL, WILFRED T.
Ontogenetic Changes in the Coloration of the Snake *Cemophora coccinea* ... 62

The Status of the Florida Brown Snake, *Storeria victa* 155

An Estivating Bowfin 240

A Channel Catfish with a Forked Barbel 317

NEILL, WILFRED T., and E. ROSS ALLEN
Eumeces fasciatus in Florida 156

NICHOLS, J. T.
Hildebrandella, a New Generic Name for a Carangid Fish (1 fig.) 19

OLIVER, JAMES A.
Anolis sagrei in Florida 55

PERKINS, C. B.
Longevity of Snakes in Captivity in the United States 238

PETERS, JAMES A.
A New Snake of the Genus *Coniophanes* from Veracruz, Mexico 279

RAND, A. S.
Leopard Frogs in Caves in Winter 324

REID, GEORGE K., JR.
Notes on the Centrarchid Fish *Mesogonistius chaetodon elizabethae* in Peninsular Florida 239

RIEMER, WILLIAM J. (*See* ROBERT C. STEBBINS)

RIVAS, LUIS RENÉ, and GEORGE S. MYERS
A New Genus of Poeciliid Fishes from Hispaniola, with Notes on Genera Allied to *Poecilia and Mollienesia* (1 pl., 1 fig.) 288

ROKOSKY, EMIL J. (*See* ROBERT SNEDIGAR)

ROMER, J. D.
List of Geckoes Known to Occur in the Colony of Hong Kong 54

RUIBAL, RUDOLFO
The Status of the Lizard *Pantodactylus nicefori* 58

SCHMIDT, KARL P., and ROGER CONANT
The Names of the Common North American Garter Snake and Ribbon Snake 58

SCHMITT, WALDO
Samuel Frederick Hildebrand 1

SCHULTZ, LEONARD P.
Samuel Frederick Hildebrand (2 figs.) 2

Correction for "A Revision of Six Subfamilies of Atherine Fishes, with Descriptions of New Genera and Species" 150

SCHULTZ, LEONARD P., and ANN SHEPARD GREEN
Bibliography of Samuel F. Hildebrand 15

SCHWARTZ, ALBERT
Extension of Range of the Water-snake *Natrix taxispilota* 60

SEAMAN, E. A.
Notes on the Effect of Flash Food on Stream Fish in West Virginia 320

SEIBERT, HENRI C.
Population Density of Snakes in an Area near Chicago 229

SMITH, CLARENCE L. (*See* PAUL K. ANDERSON and ALLAN CHANEY)

SMITH, PHILLIP W.
A Third Locality for the Ringed Salamander, *Ambystoma annulatum* 228

SNEDIGAR, ROBERT, and EMIL J. ROKOSKY
Courtship and Egg Laying of Captive *Testudo tabulata* (1 pl.) 46

SOUTHWARD, MORRIS (*See* MAX KATZ)

STEBBINS, ROBERT C., and WILLIAM J. RIEMER
A New Species of Plethodontid Salamander from the Jemez Mountains of New Mexico (2 pls.) 73

TAVOLGA, WILLIAM N.
Pattern Variability Among Populations of the Gobiid Fish *Bathygobius soporator* (1 fig.) 182

TAYLOR, EDWARD H.
A New Bromeliad Frog from the Mexican State of Veracruz (1 pl.) 274

TAYLOR, WILLIAM RALPH (*See* REEVE M. BAILEY)

TREWAVAS, ETHELWYNN
The Status of the American Mullets, *Mugil brasiliensis* and *M. curema* 149

ULLRICH, SISTER MARY (*See* W. GARDNER LYNN)

VALENTINE, B. O. (*See* SHERMAN C. BISHOP)

VANZOLINI, P. E.
Bachia tridactyla (Daudin, 1802), Replaced by *Bachia schlegeli* (Duméril and Bibron, 1839) 151

VOGTMAN, DONALD B.
The Relative Efficiency of Two Types of Anti-Venom Sera in Neutralizing Cobra Venom 225

WALKER, EARL T.
Spawning Records of Fishes Seldom Reported from North Carolina Waters ... 319